

**Listing of Claims:**

Claim 1 (currently amended) A method of enhancing the take of a nitrogen fixing microorganism on plant roots without causing damage to the plant which comprises ~~by exposing~~ the desired site on the epidermis of the plant's seed or plant body ~~it to a~~ low-energy electron beams-beam having an energy between 100 keV and 500 keV and providing an adequate dose for enhancing the take of the nitrogen fixing microorganism on the plant roots and transplanting the seed or body into soil.

Claims 2-3 (canceled)

Claim 4 The method according to claim 1, wherein the electron beams are applied at a dose between 10 Gy and 100 kGy.